INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19495

A. CLASSIFICATION OF SUBJECT MATTER	101/0004/19499	
IPC(7) : F16J 15/40		
US CL : 277/409, 411, 412, 413, 414, 415, 418		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
U.S. : 277/409, 411, 412, 413, 414, 415, 418		
1, 12, 12, 13, 14		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
of the field searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
practicable, scalentering used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with irridication, where appropriate, of the relevant passages Relevant to claim No.		
	appropriate, of the relevant passages	Relevant to claim No.
X US 2003/0107181 A1 (WEIGHAR DT) 12 June 20	03 (12.06.2003), Figure 2.	1-4
A US 5.704.614 A (SANDERS et al.) 06 January 1000		
A US 5,704,614 A (SANDERS et al) 06 January 1998 (06.11.1998).		1-4
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Further documents are listed in the continuation of Box C.	See patent family annex.	ŀ
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"L" document which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone	i
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document published prior to the international filing date but later than the	"&" document member of the same potent 6!	
priority date claused	"&" document member of the same patent famil	y J
Date of the actual completion of the international search Date of mailing of the international search		
and the international search report		
26 May 2005 (26.05.2005) Name and mailing address of the VOLKING		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US	Authorized officer	
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